

IN THE CLAIMS:

1. (Currently Amended) A subwoofer speaker apparatus comprising:

a subwoofer speaker housing comprising:

at least one subwoofer speaker;

a processor coupled to the at least one subwoofer speaker, the processor
comprising:

~~a first component~~ being configured to receive a sound signal from an external
source[[:]] and

~~a second component configured to~~ generate a video signal based on the sound
signal; and

a video output port ~~coupled to the second component~~ configured to output the
generated video signal,

wherein the processor is further configured to receive a second sound signal
from a second external source, process the second sound signal based on
only a plurality of adjustable subwoofer parameters, and output the
processed second sound signal to the at least one subwoofer speaker.

- 2-3. (Canceled)

4. (Original) The apparatus of Claim 1, wherein the external source is a microphone.

5. (Canceled)

6. (Currently Amended) The apparatus of Claim [[5]] 4, further comprising a control device
wireless remote control configured to allow user manipulation of the parameters.



7. (Currently Amended) The apparatus of Claim ~~[[5]]~~ 4, ~~wherein the housing further comprising comprises~~ a wireless communication component coupled to the processor, wherein ~~the wireless communication component is configured to receive signals from the control device~~ is a ~~the~~ wireless remote control that allows a user to manipulate at least one of the parameters.

8. (Currently Amended) The apparatus of Claim 7, wherein the wireless communication component is includes an optical sensor.

9. (Currently Amended) The apparatus of Claim ~~[[5]]~~ 4, wherein the processor is further ~~comprises:~~

~~a sixth component~~ configured to generate a test sound signal.

10. (Currently Amended) The apparatus of Claim 9, ~~wherein the housing further comprising~~ comprises a port configured to output the test sound signal.

11. (Currently Amended) The apparatus of Claim ~~[[5]]~~ 4, wherein the processor further ~~comprises:~~

~~a sixth component configured to receive~~ receives changes to one ~~or more of the first thru fifth components~~ plurality of parameters.

12. (Canceled)

13. (Currently Amended) The apparatus of Claim ~~42~~ 10, ~~wherein the subwoofer speaker housing further comprising comprises~~ volume controls ~~mounted to the housing and~~ configured to control output of the at least one subwoofer speaker.

14. (Currently Amended) The apparatus of Claim ~~42~~ 10, wherein the subwoofer speaker housing further ~~comprising comprises~~ an indicator light coupled to the processor.



15. (Currently Amended) The apparatus of Claim 1, wherein the subwoofer speaker housing further comprising: comprises at least one amplifier coupled to the at least one subwoofer speaker.

16. (Currently Amended) A sound system including a receiver, the sound system comprising:

a display;

a microphone;

a control device; and

a subwoofer speaker housing apparatus ~~coupled to the display, the microphone, the control device, and the receiver, the speaker apparatus~~ comprising:

at least one subwoofer speaker; and

a processor coupled to the at least one subwoofer speaker, the processor ~~comprising:~~

~~a first component~~ configured to receive a first sound signal from the receiver, ~~and a second sound signal received by the microphone,~~
and a control signal generated by the control device;

~~a second component~~ configured to process the first sound signal based on only a plurality of subwoofer parameters and output the processed sound signal to the at least one subwoofer speaker; ~~and~~

~~a third component~~ configured , to generate a video signal based on the second sound signal;

~~a fourth component~~ configured , and to send the generated video signal to the display,

wherein the display presents the received video signal.



17. (Currently Amended) The system of Claim 16, wherein the processor is further ~~comprises a fifth component~~ configured to generate and send a test sound signal to the receiver.

18. (Currently Amended) The system of Claim 17, wherein the receiver generates ~~[[a]]~~ the first sound signal based on the received test sound signal and sends the generated first sound signal to the ~~speaker-apparatus processor~~ for output to the at least one subwoofer speaker.

19. (Original) The system of Claim 18, wherein the generated a video signal includes a graphical user interface, the graphical user interface includes a frequency response graph of the sound signal received by the microphone.

20. (Currently Amended) The system of Claim 19, wherein the graphical user interface further includes an eight band parametric equalizer limited to subwoofer frequency bands.

21. (Original) The system of Claim 20, wherein the graphical user interface further includes a parameters section configured to allow a user to set at least a portion of the plurality of parameters using the control device.

22. (Original) The system of Claim 21, wherein the portion of the plurality of parameters includes ~~one~~ two or more of low pass crossover frequency, low pass crossover slope, subsonic frequency, subsonic slope, phase, and polarity, ~~volume, contour frequency, contour level, or a theatrical/musical performance parameter.~~

23. (Canceled)

24. (Currently Amended) The system of Claim ~~23~~ 16, wherein the ~~speaker-apparatus~~ housing further comprises a port mounted on the housing, the port configured to receive the generated video signal from the processor.



25. (Currently Amended) The system of Claim 23, wherein the ~~speaker apparatus~~ housing further comprises a port configured to receive sound signals from the processor.

26. (Currently Amended) The system of Claim 23, wherein the ~~speaker apparatus~~ housing further comprises a volume control ~~controls mounted to the housing and~~ configured to control output of ~~the~~ at least one subwoofer speaker.

27. (Currently Amended) The system of Claim 16, wherein the ~~speaker apparatus~~ housing further comprises a wireless communication component coupled to the processor, and wherein the control device is a wireless remote control.

28. (Original) The system of Claim 27, wherein the wireless communication component is an optical sensor.

29. (Original) The system of Claim 27, wherein the wireless remote control includes one or more preset buttons configured to send a preset command signal to the processor, wherein the processor processes sound signals according to parameters set in accordance with the received preset command signal.

30-38. (Canceled)

39. (Currently Amended) A method comprising:

receiving a first sound signal at a subwoofer speaker unit from a source external to the subwoofer speaker unit;

processing the first sound signal based on only a plurality of adjustable subwoofer parameters;

outputting the processed first sound signal to at least one subwoofer speaker of included in the subwoofer speaker unit;



receiving at a processor included in the subwoofer speaker unit a second sound signal generated by a microphone ~~at the speaker unit~~;
generating a video signal at by a processor included in the subwoofer speaker unit based on the second sound signal; and
sending the generated video signal to a display coupled to the ~~speaker unit~~ processor.

40. (Currently Amended) The method of Claim 39, further comprising:

generating a test sound signal ~~by the processor at the speaker unit~~; and
sending the generated test sound signal to a sound system coupled to the processor speaker unit.

41. (Currently Amended) The method of Claim 40, further comprising:

generating an output test sound signal at the sound system based on the received test sound signal; and
sending the generated output test sound signal to one or more speakers coupled to the sound system and to the at least one subwoofer speaker of the subwoofer speaker unit via the processor.

42. (Original) The method of Claim 41, further comprising:

presenting the generated video signal on the display, wherein the presented video signal includes a graphical user interface, the graphical user interface includes a frequency response graph of the sound signal received by the microphone.

43. (Currently Amended) The method of Claim 42, wherein the graphical user interface further includes an eight band parametric equalizer limited to subwoofer frequency bands.



44. (Original) The method of Claim 43, wherein the graphical user interface further includes a parameters section configured to allow a user to set at least a portion of the plurality of parameters using the a control device.

45. (Currently Amended) The method of Claim 44, wherein the portion of the plurality of parameters includes ~~one~~ two or more of low pass crossover frequency, low pass crossover slope, subsonic frequency, subsonic slope, phase, and polarity, ~~volume, contour frequency, contour level, or a theatrical/musical performance parameter.~~

46-72. (Canceled)

73. (New) The apparatus of Claim 1, wherein the subwoofer speaker housing further comprises a port mounted on an exterior of the housing, the port configured to receive the generated video signal from the processor.